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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Telephone: (801) 538-5340

DIVISION OF
OIL, GAS & MINING

ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. GENERAL INFORMATION

1. Report Time Period: From (mo./yr.) 1/88 To (mo./yr.) 12/88
2. DOGM File Number (original notice): M / 023 / 003
3. Mine Name: Topaz Mining Properties
4. Mineral(s) Mined: Bertrandite
5. Name of Operator or Company: Brush Wellman Inc.
6. Permanent Address: 67 West 2950 South
Salt Lake City, UT 84115
7. Company Representative (or designated operator):
Name: Kenneth R. Poulson
Title: Vice President, Mining & Exploration
Address: 67 West 2950 South Salt Lake City, UT
Phone: 801/467-5441

☐ Please check if any of the above information has changed since previous year.

II. MINING AND RECLAMATION

1. Was the mine active during the past year? Yes ☒ No ☐
2. If active, how much ore or mineral was mined? 153,031 tons

3. Briefly describe any new or additional surface disturbances that occurred during the past year. This description should include the type of work performed, volume of material moved, and the acreage affected.

None

4. Briefly describe the reclamation work performed during the past year. This description should include acreage reclaimed, methods employed, and an evaluation of the results.

(See Attachment)

5. What was the total unreclaimed acreage at years end? 602.6 acres
6. Briefly summarize mining and reclamation planned for the upcoming year.
- Brush has scheduled mining and stockpiling 80,000 tons of Bertrandite ore.
- Brush has scheduled seeding dump top - Blue Chalk North, part of dump top
- Blue Chalk south, 1/2 of dump top - Rainbow and dump top - Sigma Emma

NOTE: Section III., "Additional Information" applies only to large mining operations.

III. ADDITIONAL INFORMATION

1. An updated surface facilities map should be attached if there have been significant changes since the previous map was submitted.
(See Attachment)
2. Any monitoring results or other reports that are required under the terms of the approved notice of intention should also be attached.

IV. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Signature of Operator:



Name (Typed or Print):

Kenneth R. Poulson

Title of Operator:

Vice President, Mining & Exploration

Date:

February 23, 1989

Attachment (Form MR-AR)
Brush Wellman Inc.

- II. 4.** Brush ripped the dump top of Blue Chalk North, ripped part of the dump top of Blue Chalk South and ripped 1/2 of the dump top of Rainbow. The dumps were ripped with a D-8L Bulldozer with a ripper attachment. This work was done in preparation of future seeding. In addition, the Taurus dump was reseeded.

Insufficient time has passed to give an evaluation of the seeding results. The results of ripping the dumps has been successful, providing a roughened surface for seed germination sites and the adsorption of water.

In 1986, rabbitbrush seed was hand-broadcast over the Taurus and Sigma Emma dumps. During the interim, Brush and DOGM agreed to a new seed mix for the rhyolite covered dumps. Subsequently, Brush reseeded the Taurus dump with the new mix (1988). To date, no species have been established.

Brush reclaimed 33.3 acres in 1988.

- III. 1.** There has been no changes since previous map was submitted.

BRUSHWELLMAN
ENGINEERED MATERIALS

Brush Wellman Inc.
67 West 2950 South
Salt Lake City, UT 84115
Phone 801/467-5441

February 23, 1989

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attention: *Janell*
Lowell P. Braxton
Administrator

Re: Annual Report 1988
Topaz Mining Properties
M/023/003

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DIVISION OF
OIL, GAS & MINING

Dear Mr. Braxton:

Enclosed is Brush Wellman Inc.'s Annual Report of Mining Operations as required.

If you have any questions or require additional information, please advise.

Sincerely yours,

BRUSH WELLMAN INC.

KRP
Kenneth R. Poulson
Vice President
Mining & Exploration

KRP/dt

Enclosure